

CLAIMS:

1. Audio dialogue system, comprising
- an audio input unit (12) for inputting an audio input signal,
 - speech recognition means (20) associated with said audio input unit (12) for converting said audio input signal into a text input data (21),
 - 5 - an audio output unit (12) for outputting an audio output signal, and speech synthesis means (26) associated with an output unit (12) for converting text output data (24) into said audio output signal,
 - browsing means (22) for processing content data (D1), said content data (D1) comprising text content and at least one reference (Ln1, Ln2), said
 - 10 reference comprising a reference aim and activation information, said activation information comprising one or more activation phrases (28),
 - said browsing means (22) being configured to control said speech synthesis means (26) to output said text content,
 - said browsing means being further configured to compare said input text
 - 15 data (21) to said activation phrase (28), and in case of a match, for accessing content data (D2) corresponding to said reference aim,
 - where in case that said text input data (21) is not identical to said activation phrase (28), said browsing means (22) find a match, if said input text data (21) has a meaning similar to said activation phrase (28).
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2. System according to claim 1, said system further comprising
- dictionary means (30) for storing, for a plurality of search words (32a), connected words (32b, 32c, 32d) with a meaning connected to the meaning of said search words (32a),
 - 25 - where said browsing means (22) are configured to retrieve connected

words (32b, 32c, 32d) for words comprised in said input text data (21)
and/or for words comprised in said activation phrase (28),

- and use said connected words (32b, 32c, 32d) for said comparison.

5 3. System according to claim 2, where

- said dictionary means (30) comprise for at least some of said search words (32a),
- connected words (32b, 32c, 32d) which fall into one or more of the categories out of the group consisting of: synonyms, hyponyms,
10 hypernyms, holonyms, meronyms.

4. System according to one of the above claims, where

- said browsing means (22) are configured to establish a co-occurrence matrix giving for a plurality of terms and for a plurality of activation
15 phrases the number of occurrences of said terms in said phrases,
- perform a singular value decomposition of said co-occurrence matrix to calculate a semantic space,
- and determine a similarity by representing said input text data (21) and said activation phrase (28) as vectors in said semantic space, and calculating a
20 measure for the angle between these vectors.

5. System according to one of the above claims, where

- said browsing means (22) are configured to determine a word frequency for a plurality of words in all activation phrases of all links in said content
25 data,
- and determine a similarity by finding common words in said input text data (21) and said activation phrase (28).

6. System according to one of the above claims, where

- said browsing means (22) are configured to determine a word sequence frequency for a plurality of word sequences of all activation phrases (28) of all of said links in said content data,
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- and determine a similarity by processing word sequences of said input text

data (21).

7. System according to one of the above claims, where

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- for each of said links a language model is trained, said language model comprising word sequence frequencies,
 - and said input text data (21) is compared to each of said language models by determining a score indicating an agreement of said input text data (21) with said model,
 - and said similar meaning is determined according to said score.

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8. Voice browsing method, including the steps of

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- processing content data (D1), said content data (D1) comprising text content and at least one reference (LN1), said reference comprising a reference aim and activation information, said activation information comprising one or more activation phrase (28),
 - converting said text content to an audio output signal using speech synthesis, and outputting said audio output signal,
 - acquiring an audio input signal, and using speech recognition to convert said audio input signal to text input data (21),
 - 20 - comparing said text input data (21) to said activation phrase (28) and in case that said text input data is not identical to said activation phrase (28), indicating a match if said input text data (21) has a meaning similar to said activation phrase (28), and in case of a match accessing content data (D2) corresponding to said reference aim.

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